

# Isaac Ng

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*Computer Science major seeking opportunities for future challenges to improve professional and personal skills.*

## Education

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### Case Western Reserve University, Class of 2019

Cleveland, Ohio

*B.S. Computer Science w/ Business Management Minor, GPA: 3.085*

08/2015—Present

Coursework: Data Structures, Algorithms, Probabilistic Graphical Models, Programming Language Concepts

### Niwot High School, Class of 2015

Longmont, Colorado

*High School Diploma, GPA: 4.5*

08/2011-05/2015

Salutatorian, National Merit Finalist, IB Diploma, AP Scholar w/ Honor, Principal's List 4 Years

## Experience

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### Seagate

Longmont, Colorado

*Firmware Dataflow Engineering Intern*

05/2018-08/2018

- Added functionality for multiple drives/worker to Python script that parsed csv data.
- Converted excel writing library from XLWT to XLSXWriter to optimize code.
- Attempted to write in multi actuator support for script that generated command list data.

### Seagate

Longmont, Colorado

*Firmware Dataflow Engineering Intern*

05/2017-08/2017

- Worked with the Firmware Engineering Group via Agile Methodologies.
- Wrote STX script to print different drive data to csv file.
- Wrote Python script to parse drive(s) data and display performance.
- Refactored and debugged code using Coverity, Perforce, Code Collaborator, SBM, and JIRA.

### Team Dignitas

Cleveland, Ohio

*Online Content Writer*

09/2017-08/2018

- Communicated clearly with supervisor concerning article ideas, submission times, and finished projects.
- Wrote various CSGO articles going in-depth into the game mechanics, theorycraft, and strategies.
- Submitted and revised articles in a timely manner.

## Coding Projects

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- Wrote script that scrapes videogame data and plots the findings in Python.
- Wrote 2x2 Rubik's Cube solver that used A\* and beam search in Java.
- Wrote byrrice.github.io, a personal website written entirely from scratch in HTML/CSS/JavaScript.
- Wrote ImageToSpeech, a Chrome extension that describes images using the Google Vision API in JavaScript.

## Skills

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**Software:** Microsoft Office, Sony Vegas Pro, Photoshop, IntelliJ, GitHub, Linux Shell, Unity, Git

**Programming Language:** Java, Python, Matlab, Scheme, Prolog, Haskell, C#, Markdown/Latex, HTML, CSS, JavaScript

**Misc:** Agile Methodology, American Red Cross Lifeguard Certification, Mandarin

## Honors

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**Eagle Scout:** Senior Patrol Leader, Eagle Scout Project: Sandstone Ranch Restoration

**Instruments:** Carnegie Hall Royal Conservatory Level 10 Oboe Certification, American String Teacher Association Level 10 Violin Certification

**Coding:** HackCWRU V Maker Award

## Interests/Hobbies

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- Vice President of Case Western Club Tennis 08/2015 - Present
- Member of Asian American Alliance 02/2016 - Present
- Pytte Cup Chair, House Manager of Phi Gamma Delta(FIJI) 02/2016 - Present
- Membership Development Chair of Case Engineering Council 07/2017 - Present
- Vice President/Co-Founder of CWRU Without Borders 10/2017 - Present
- Captain/In Game Leader of Esports Club Collegiate Star League CSGO Team 08/2017 - 12/2017